

059
1109

OIPE

#2

RAW SEQUENCE LISTING

DATE: 10/29/2001

PATENT APPLICATION: US/09/974,712

TIME: 15:40:30

Input Set : A:\LEX-0251-USA SEQLIST.txt
Output Set: N:\CRF3\10292001\I974712.raw

4 <110> APPLICANT: Friddle, Carl Johan
5 Hilbun, Erin
6 Gerhardt, Brenda
7 Turner, C. Alexander Jr.
9 <120> TITLE OF INVENTION: Novel Human Ion Channel Protein and Polynucleotides Encoding
the Same

11 <130> FILE REFERENCE: LEX-0251-USA
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/974,712
C--> 13 <141> CURRENT FILING DATE: 2001-10-10 *bf*
13 <150> PRIOR APPLICATION NUMBER: US 60/239,623
14 <151> PRIOR FILING DATE: 2000-10-10
16 <160> NUMBER OF SEQ ID NOS: 3
18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1371
22 <212> TYPE: DNA
23 <213> ORGANISM: homo sapiens

ENTERED

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27	gggtgcgct tcgagacgcg	ggcgccacg ctggggcgt tcccggacac tctgtaggg	120
28	gaccaggcgc gcccgccccg	cttctacgac gacgcgcgccc gcgagtattt ctgcaccgg	180
29	caccggccca gcttcgacgc	cgtgtctac tactaccagt ccgggtggc gctggggcgg	240
30	ccggcgacg tgccgctcga	cgtcttcctg gaagagggtgg cttctacgg gctggggcgg	300
31	gcggccctgg cacgcctcgc	cgaggacgag ggctgcccgg tgccgccccga gcgcggccctg	360
32	ccccggccgcg cttcgccccg	ccagctgtgg ctgctttcg agtttccoga gagotctcag	420
33	gccgcgcgcg tgctgcgcgt	agttccgtg ctggtcatcc tctgtctccat cgctgtcttc	480
34	tgcctcgaga cgctgcctga	cttccgcgac gaccgcgacg gcacggggct tgctgtcga	540
35	gccgcagccg gcccgttccc	cgctcggtg aatggctcca gccaaatgcc tggaaatcca	600
36	ccccggcctgc cttcaatga	cccggttcttc gtggggaga cgctgtgtat ttgttgggtc	660
37	tccttgagc tgctggtagc	cctctggtc tgtccaaagca aggctatctt cttcaagaac	720
38	gtgatgaacc tcatcgattt	tgtggctatac ctteccact ttgtggact gggcaccgag	780
39	ctggcccgcc agcgagggtt	ggccagcag gccatgtcac tggccatctt gagagtcatc	840
40	cgattggtgtc gtgtcttccg	catttcaag ctgtccggc actcaaaggg cctgcaaatc	900
41	ttgggcccaga cgcttcgggc	ctccatgcgt gagctggcc tcctcatctt ttctcttcc	960
42	atcggtgtgg tcctctttc	cagcgccgtc tactttccg aagttgaccg ggtggactcc	1020
43	catttcacta gcatccctga	gtccttctgg tggggggtag tcaccatgac tacagttggc	1080
44	tatggagaca tggcacccgt	cactgtgggt ggcaagatag tgggctctt gtgtgccatt	1140
45	gcgggcgtgc tgactatttc	cctgcccagt cccgtcattt tctccaattt cagctacttt	1200
46	tatcaccggg agacagaggg	cgaagaggct gggatgttca gccatgtgga catgcagcct	1260
47	tgtggcccac tggagggcaa	ggccaatggg gggctggtag acggggaggt acctgagota	1320
48	ccacctccac tctggggacc	cccgaggaaa cacctggta cccaaatgtgt a	1371

50 <310> SEQ ID NO: 3

50 <210> SEQ ID NO:
51 <211> LENGTH: 456

52 <212> TYPE: PRT

53 <213> ORGANISM: homo sapiens

55 <400> SEQUENCE: 2

56 Met Glu Pro Arg Cys Pro Pro Pro Cys Gly Cys Cys Glu Arg Leu Val
57 1 5 10 15

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58 Leu Asn Val Ala Gly Leu Arg Phe Glu Thr Arg Ala Arg Thr Leu Gly
 59 20 25 30
 60 Arg Phe Pro Asp Thr Leu Leu Gly Asp Pro Ala Arg Arg Gly Arg Phe
 61 35 40 45
 62 Tyr Asp Asp Ala Arg Arg Glu Tyr Phe Asp Arg His Arg Pro Ser
 63 50 55 60
 64 Phe Asp Ala Val Leu Tyr Tyr Gln Ser Gly Gly Arg Leu Arg Arg
 65 65 70 75 80
 66 Pro Ala His Val Pro Leu Asp Val Phe Leu Glu Glu Val Ala Phe Tyr
 67 85 90 95
 68 Gly Leu Gly Ala Ala Ala Leu Ala Arg Leu Arg Glu Asp Glu Gly Cys
 69 100 105 110
 70 Pro Val Pro Pro Glu Arg Pro Leu Pro Arg Arg Ala Phe Ala Arg Gln
 71 115 120 125
 72 Leu Trp Leu Leu Phe Glu Phe Pro Glu Ser Ser Gln Ala Ala Arg Val
 73 130 135 140
 74 Leu Ala Val Val Ser Val Leu Val Ile Leu Val Ser Ile Val Val Phe
 75 145 150 155 160
 76 Cys Leu Glu Thr Leu Pro Asp Phe Arg Asp Asp Arg Asp Gly Thr Gly
 77 165 170 175
 78 Leu Ala Ala Ala Ala Ala Gly Pro Phe Pro Ala Arg Leu Asn Gly
 79 180 185 190
 80 Ser Ser Gln Met Pro Gly Asn Pro Pro Arg Leu Pro Phe Asn Asp Pro
 81 195 200 205
 82 Phe Phe Val Val Glu Thr Leu Cys Ile Cys Trp Phe Ser Phe Glu Leu
 83 210 215 220
 84 Leu Val Arg Leu Leu Val Cys Pro Ser Lys Ala Ile Phe Phe Lys Asn
 85 225 230 235 240
 86 Val Met Asn Leu Ile Asp Phe Val Ala Ile Leu Pro Tyr Phe Val Ala
 87 245 250 255
 88 Leu Gly Thr Glu Leu Ala Arg Gln Arg Gly Val Gly Gln Gln Ala Met
 89 260 265 270
 90 Ser Leu Ala Ile Leu Arg Val Ile Arg Leu Val Arg Val Phe Arg Ile
 91 275 280 285
 92 Phe Lys Leu Ser Arg His Ser Lys Gly Leu Gln Ile Leu Gly Gln Thr
 93 290 295 300
 94 Leu Arg Ala Ser Met Arg Glu Leu Gly Leu Leu Ile Phe Phe Leu Phe
 95 305 310 315 320
 96 Ile Gly Val Val Leu Phe Ser Ser Ala Val Tyr Phe Ala Glu Val Asp
 97 325 330 335
 98 Arg Val Asp Ser His Phe Thr Ser Ile Pro Glu Ser Phe Trp Trp Ala
 99 340 345 350
 100 Val Val Thr Met Thr Thr Val Gly Tyr Gly Asp Met Ala Pro Val Thr
 101 355 360 365
 102 Val Gly Gly Lys Ile Val Gly Ser Leu Cys Ala Ile Ala Gly Val Leu
 103 370 375 380
 104 Thr Ile Ser Leu Pro Val Pro Val Ile Val Ser Asn Phe Ser Tyr Phe
 105 385 390 395 400
 106 Tyr His Arg Glu Thr Glu Gly Glu Ala Gly Met Phe Ser His Val

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107	405	410	415
108	Asp Met Gln Pro Cys Gly Pro Leu Glu Gly Lys Ala Asn Gly Gly Leu		
109	420	425	430
110	Val Asp Gly Glu Val Pro Glu Leu Pro Pro Pro Leu Trp Ala Pro Pro		
111	435	440	445
112	Gly Lys His Leu Val Thr Glu Val		
113	450	455	
115	<210> SEQ ID NO: 3		
116	<211> LENGTH: 1792		
117	<212> TYPE: DNA		
118	<213> ORGANISM: homo sapiens		
120	<400> SEQUENCE: 3		
121	cgggcggcgc cgaggcggcc gagggcgcccc cgcaccgggg cggggcgctcg gggccacacg	60	
122	tcgggtcgcg ggtgcgggg gctgcgcgc ccatggagcc gcgggtgcccg ccgcgcgtcg	120	
123	gctgctgcga gggctgggt ctcAACGTTGGT cggggctgcg ctgcggatcg cggggcgccca	180	
124	cgttggcccg ttcccggac actctgttag gggaccggc gcgcgcgcgc cgcttctacg	240	
125	acgacgcgcg cgcgagat ttcttcgacc ggcacccggcc cagttcgac gccgtgtct	300	
126	actactacca gtccgggtgg cggctgcggc ggccggcgca cgtgcgcgtc gacgtttcc	360	
127	tggaaagaggt ggccttctac gggctggggc cggcgccct gcacgcctcg cgcgaggacg	420	
128	agggtgtgtcc ggtgcgcggcc gagcgcccccc tgcccccggc cgccttcgccc cgccagctgt	480	
129	ggctgttttt ctagttttcc gagagctctc aggccgcgcg cgtgtctcgcc gtatgtcccg	540	
130	tgttgtcat ctcgtctcc atcgctgtat tctgcctcga gacgctgcct gactccgcg	600	
131	acgaccgcga cggcacgggg ctgtgtctg cagccgcgc cggccgcgttc cccgtctggc	660	
132	tgaatggctc cagccaaatg cttggaaatc cacccgcct gcccttcaat gaccgttct	720	
133	tcgtgttgga gacgctgtgt atttgggt tctcccttga gctgtgttgc cgcctcctgg	780	
134	tctgtccaag caaggctatac ttcttcaaga acgtatgaa cctcatcgat tttgtggta	840	
135	tccttcccta ctttgtggca ctgggcaccc agctggcccg gcagcgagggt gtggccgc	900	
136	aggccatgtc actggccatc ctgagagtca tccgattggt gcgtgtcttc cgcatcttca	960	
137	agctgtcccg gcactcaaag ggcctgcaaa tcttggcca gacgcttcgg gcctccatgc	1020	
138	gtgagctggg cctcctcata ttttcctct tcatacggtgt gtcctctt tccagcgccg	1080	
139	tctactttgc cgaagttgac cgggtggact cccatttcac tagcatccct gacttcttct	1140	
140	ggtggccgtt agtcaccatg actacatgtt gctatggaga catggcaccc gtcactgtgg	1200	
141	gtggcaagat agtggctct ctgtgtgcctt ttgcggcggt gtcactatt tccctgcccag	1260	
142	tgcggatgtt tgcggatgtt ttatcaccg ggagacagag ggcgaagagg	1320	
143	ctggatgtt cagccatgtc gacatgcgc cttgtggccc actggaggcc aaggccaaatg	1380	
144	gggggctgggt ggacggggag gtacctgagc taccacctcc actctggggca cccccaggg	1440	
145	aacacctgggt caccgaagtq tgaggaacag ttgaggtctg caggacccatc caccccttca	1500	
146	gagggagggaa gggagggcag ggtggaggcc aaggctgggg ggaggggatt gggtttagga	1560	
147	agagcttagt taagtcrtaa cgagtggggaa aacactgagt cttgtgggt cttgggttgt	1620	
148	gtggtttgtt agtcctgtc ggtacctccat gaagcagcag cgaatggcaa tgggttgtgt	1680	
149	tgtgttaatg aagactcaat tggttcatat tacttgagt tgcgtcaaa gtcatggagcc	1740	
150	ttttgggtttaatg agtggatgtt gttttgggtc rtatcatttt gtcgtttttca ta	1792	

VERIFICATION SUMMARY
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DATE: 10/29/2001
TIME: 15:40:31

Input Set : A:\LEX-0251-USA SEQLIST.txt
Output Set: N:\CRF3\10292001\I974712.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date